

TYPICAL PERFORATION TECHNIQUE FOR DRILLED AND CASED WELLS

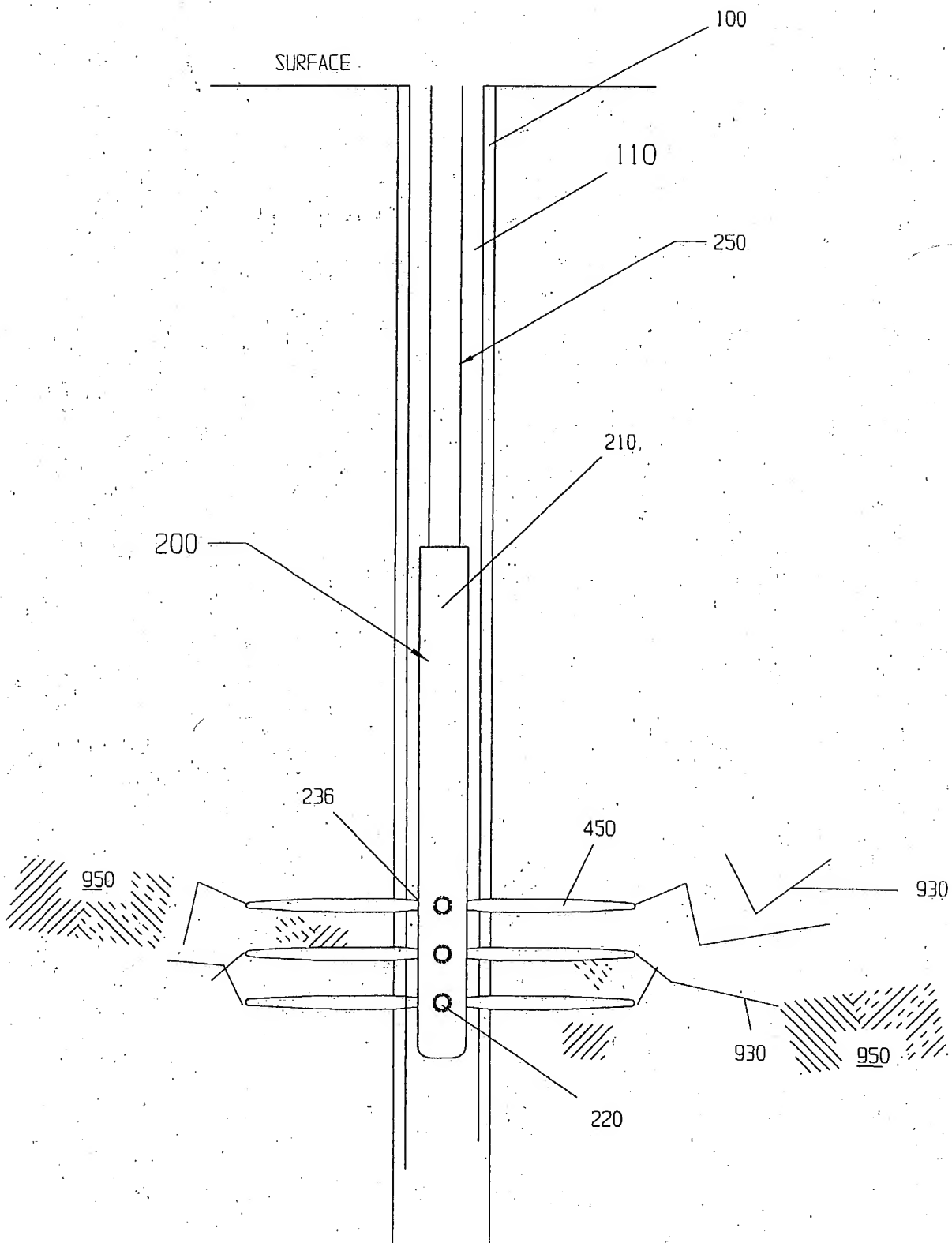


FIGURE 1

FIGURE 2

PRIOR ART

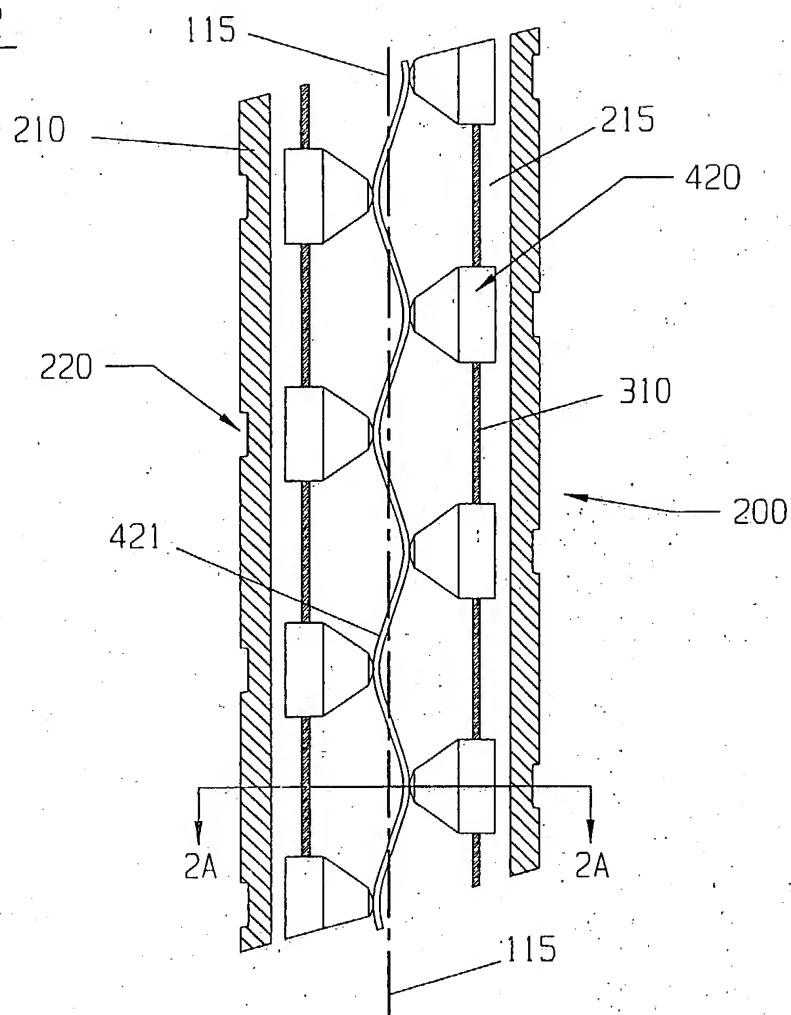
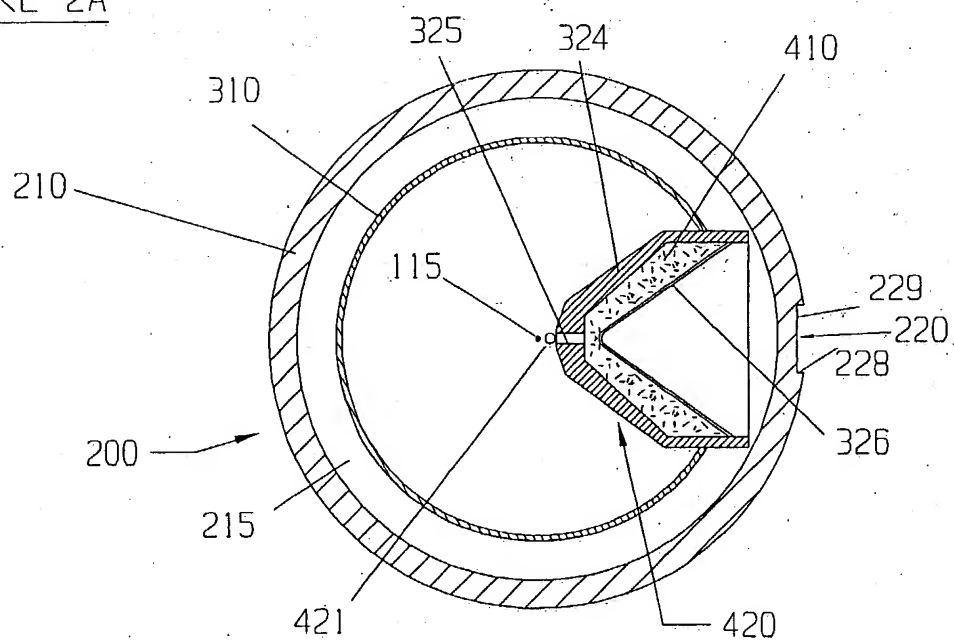
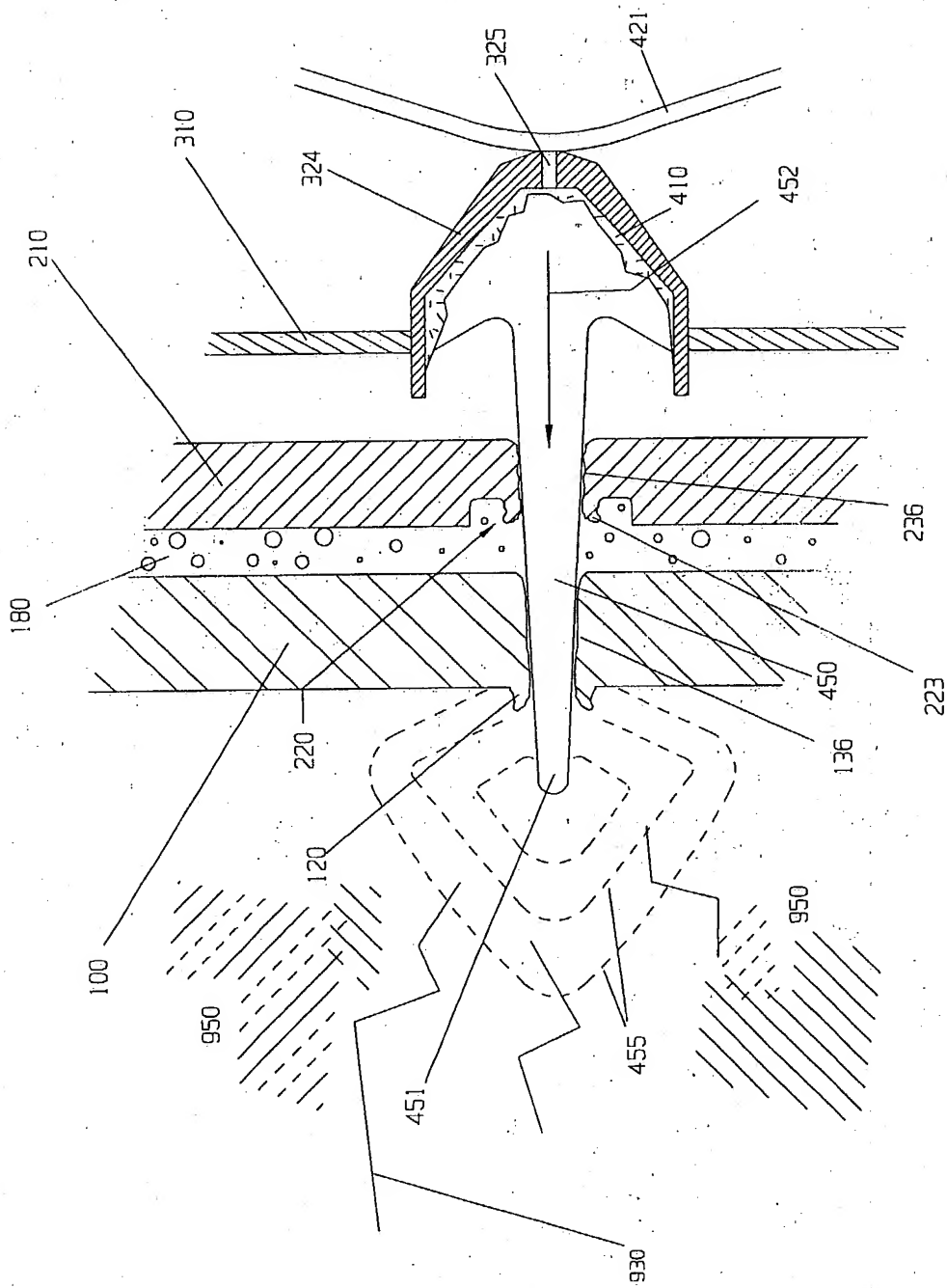
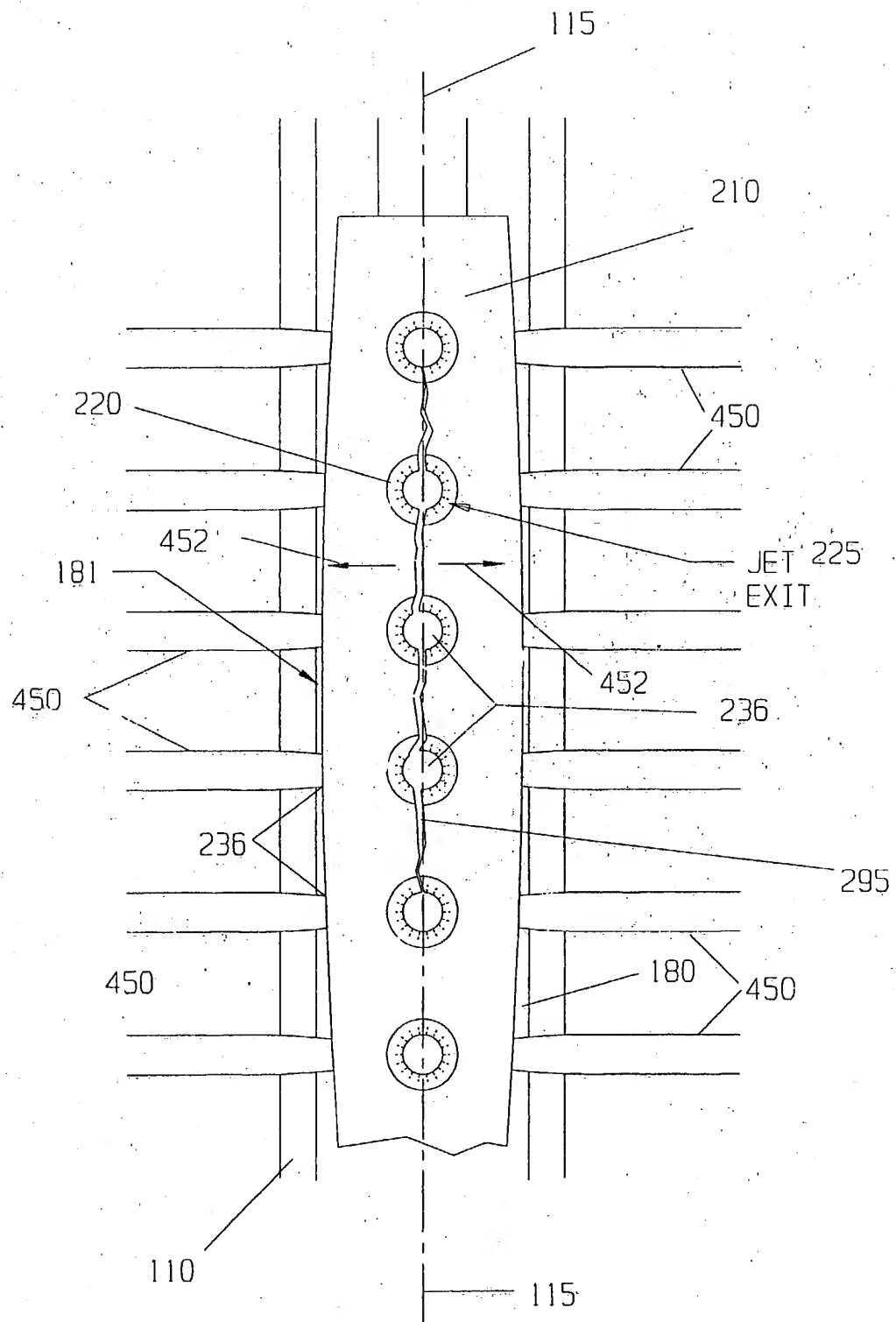


FIGURE 2A

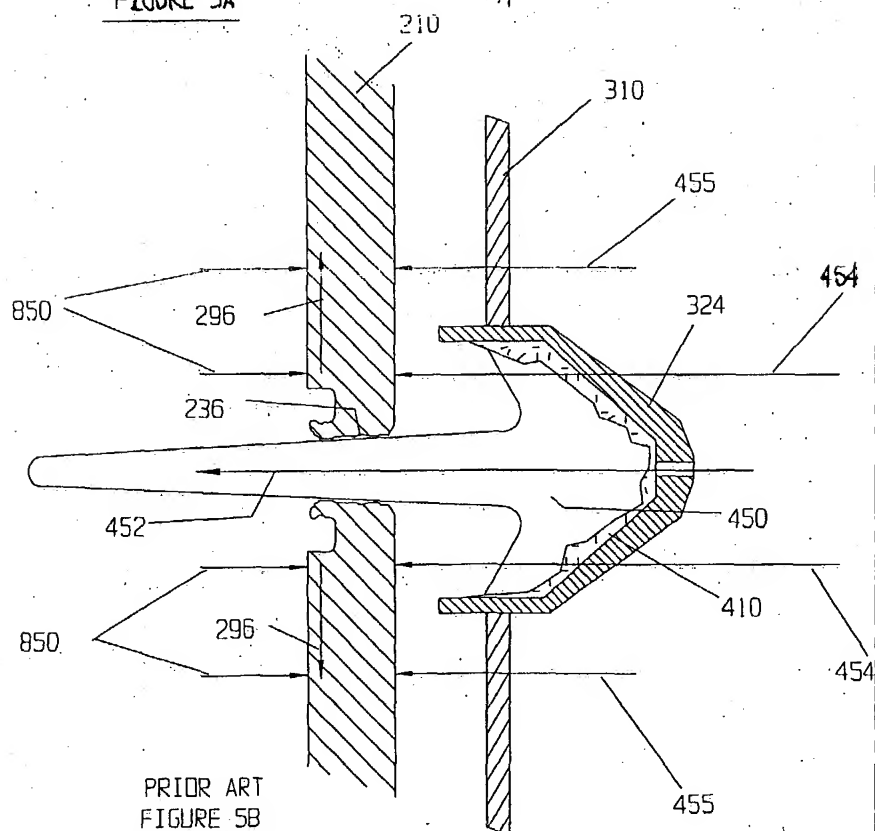
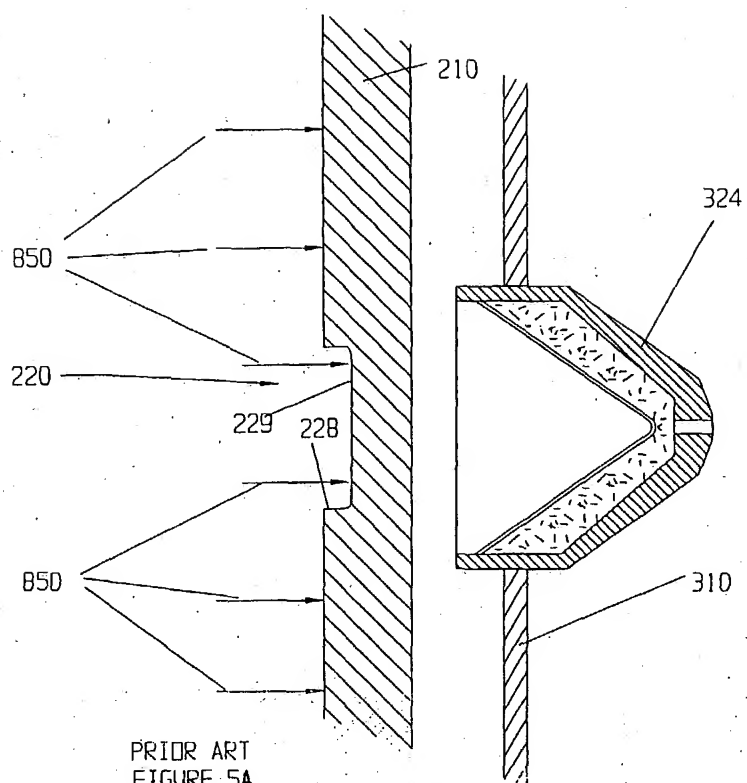


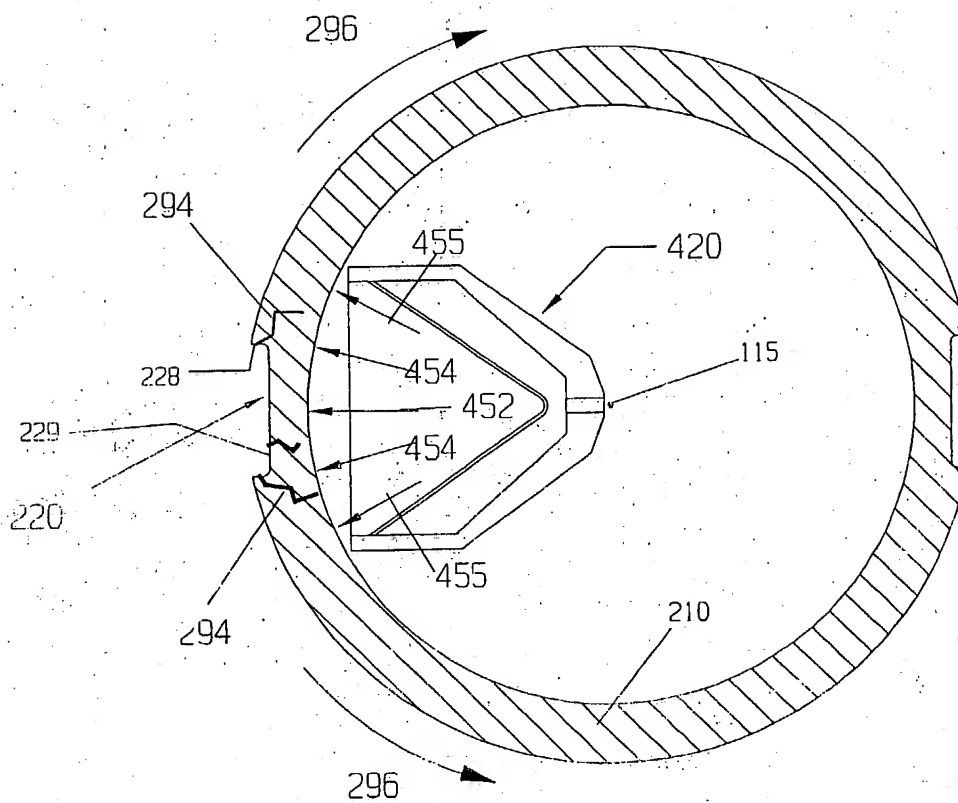


PRIOR ART
FIGURE 3



PRIOR ART
FIGURE 4





PRIOR ART
FIGURE 6

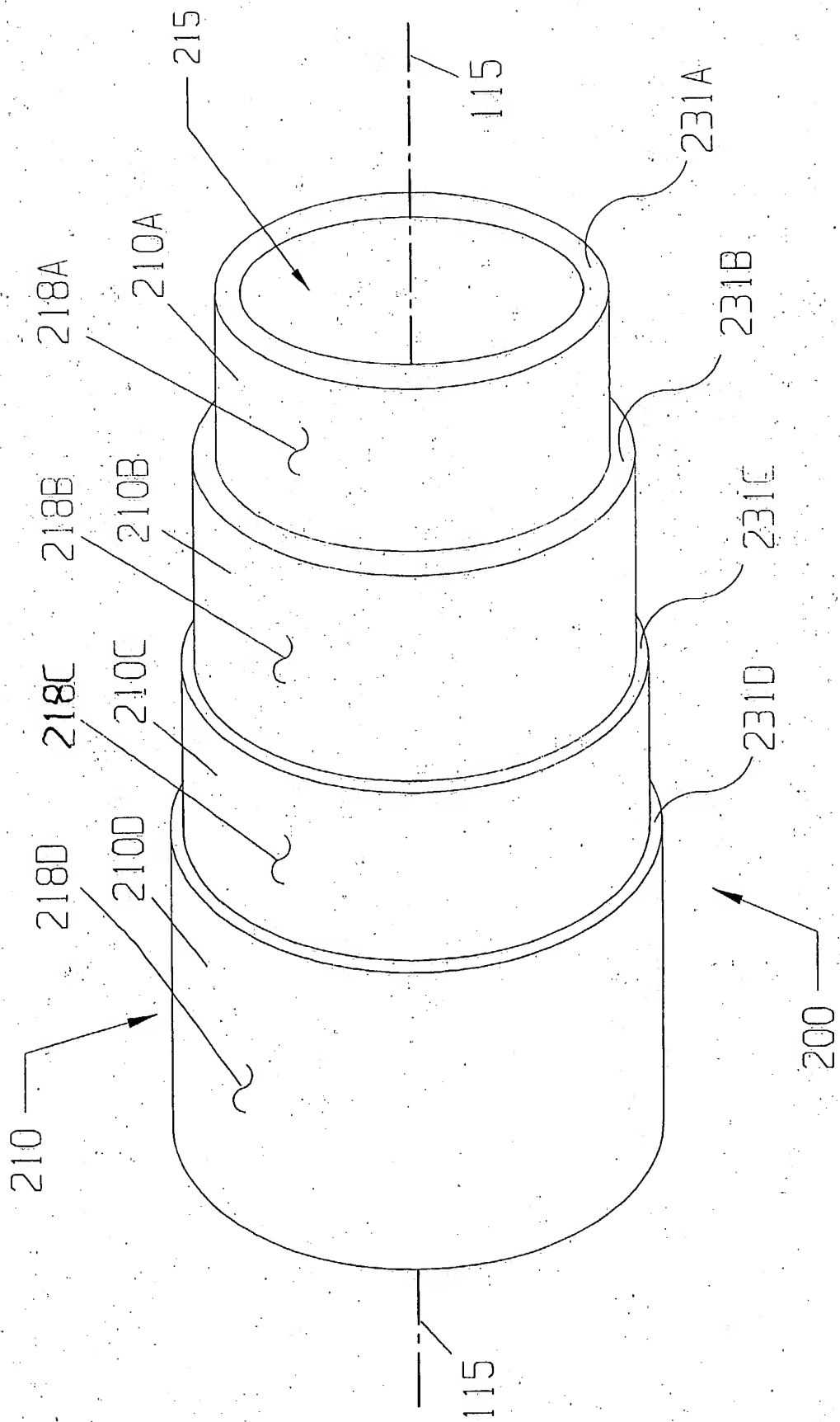


FIGURE 7

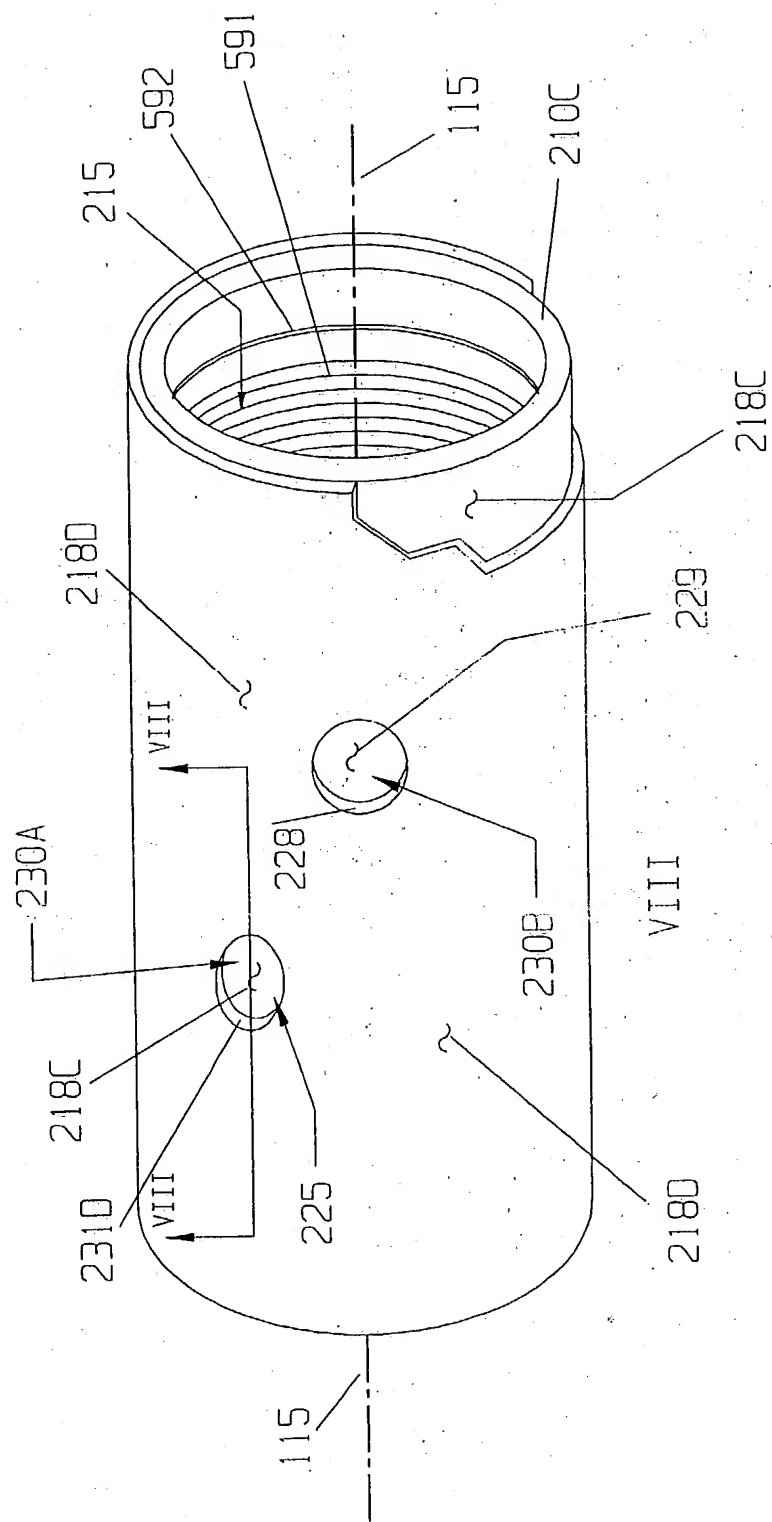


FIGURE 8

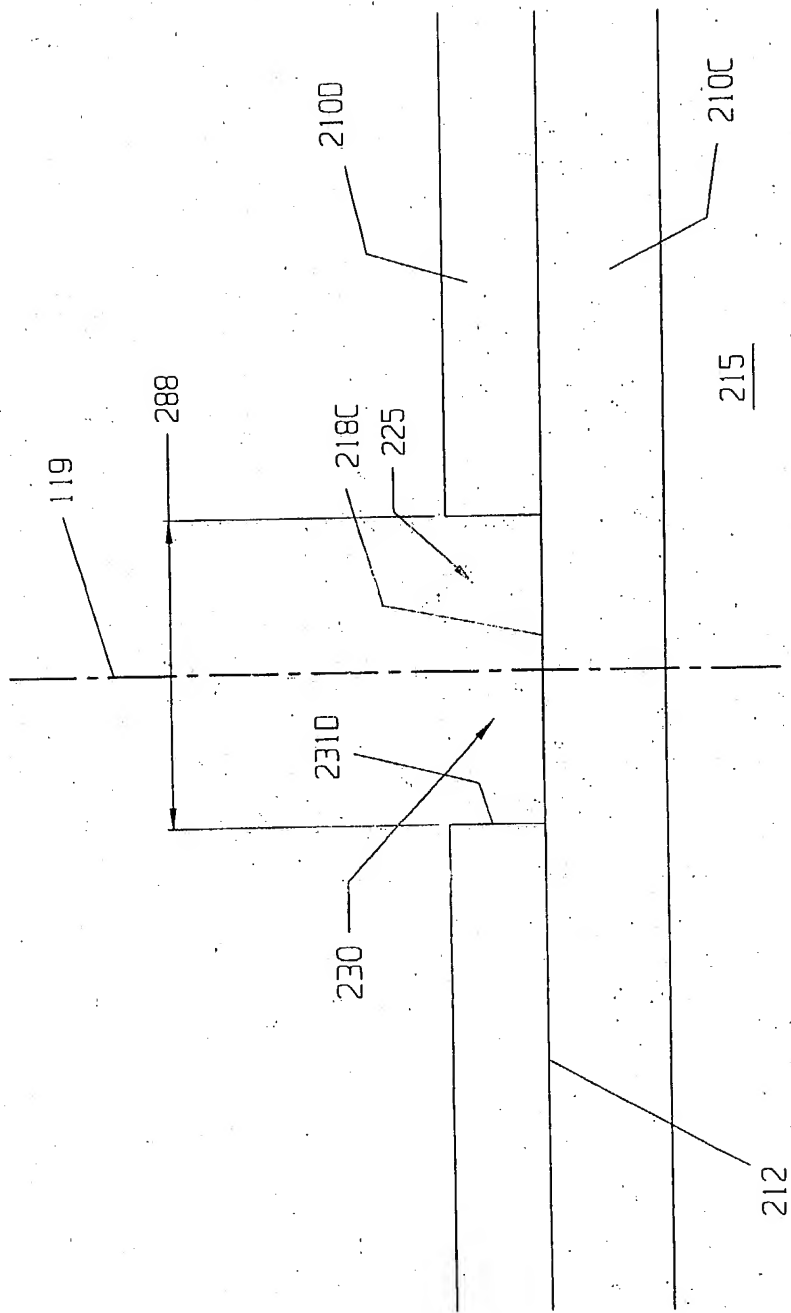


FIGURE 8A

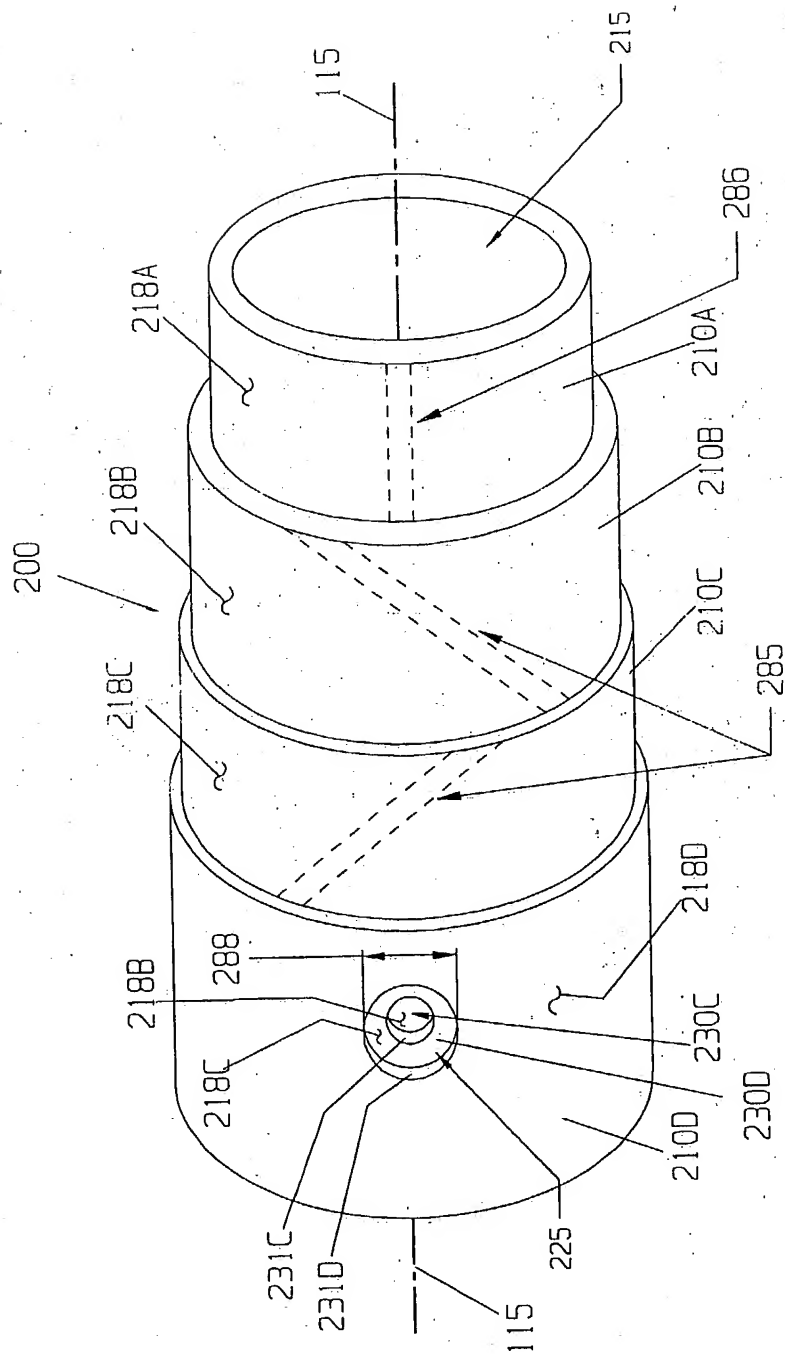


FIGURE 9

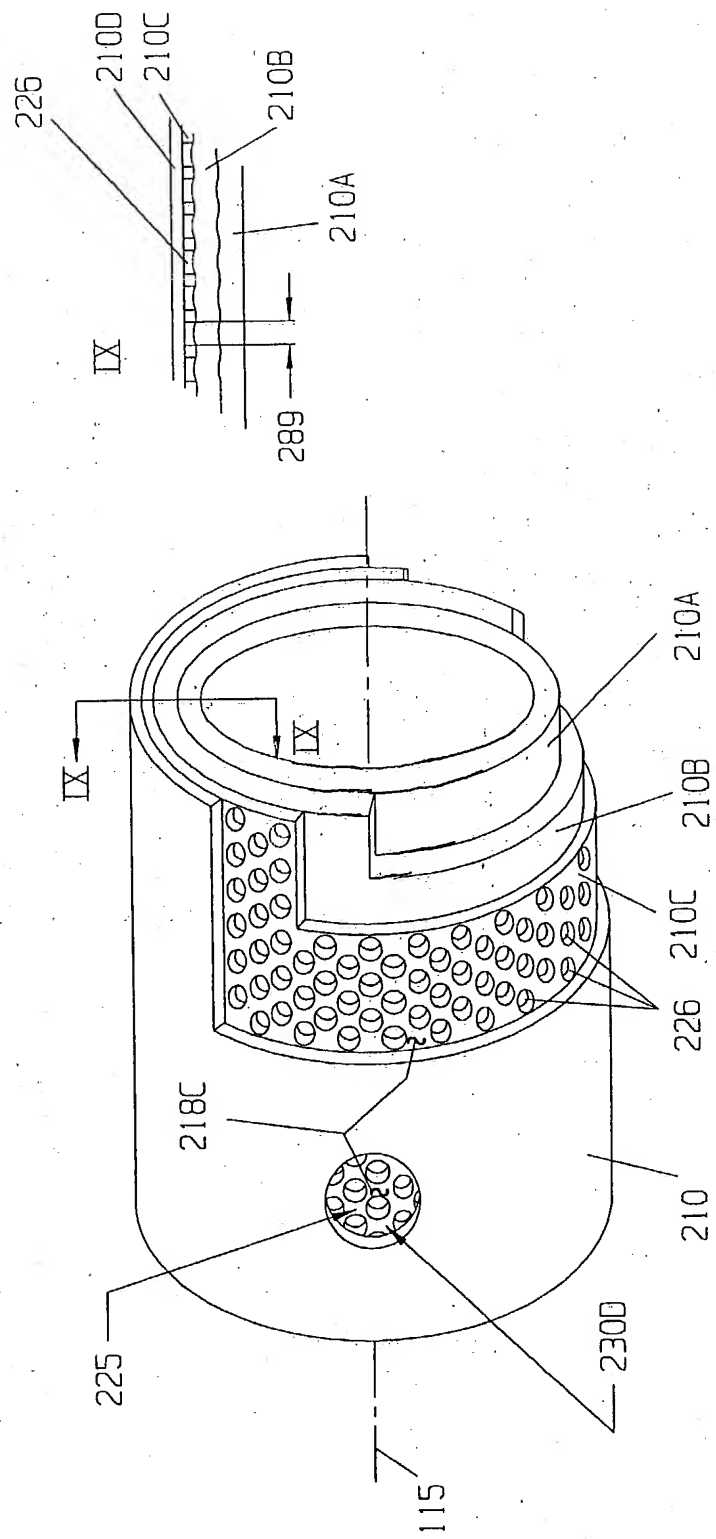


FIGURE 9A

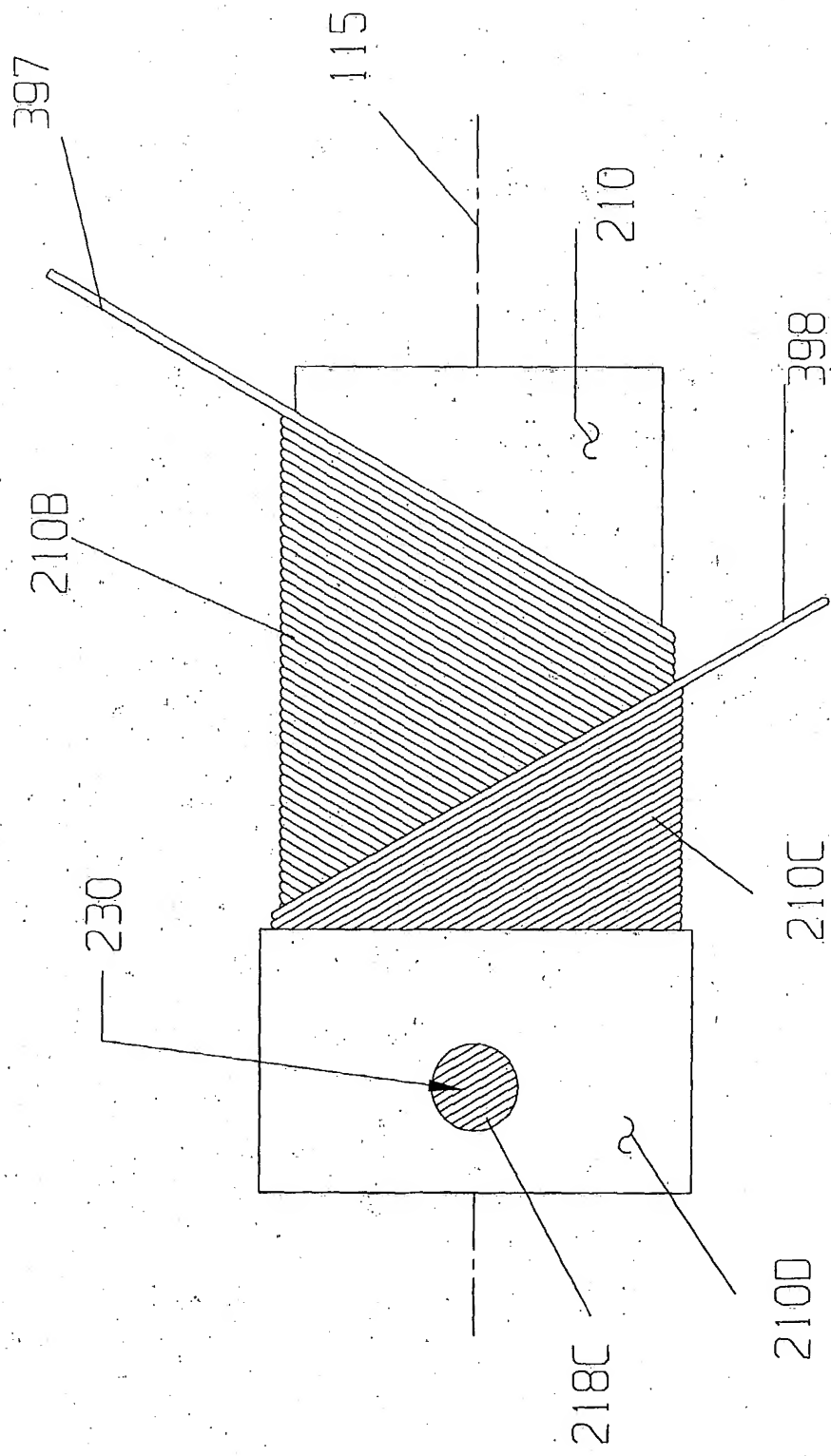


FIGURE 9B

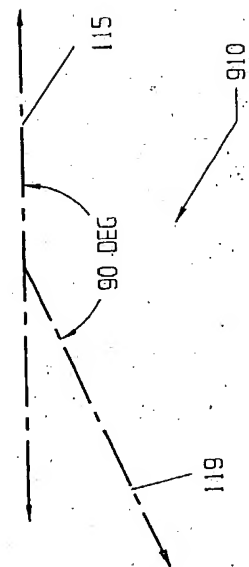
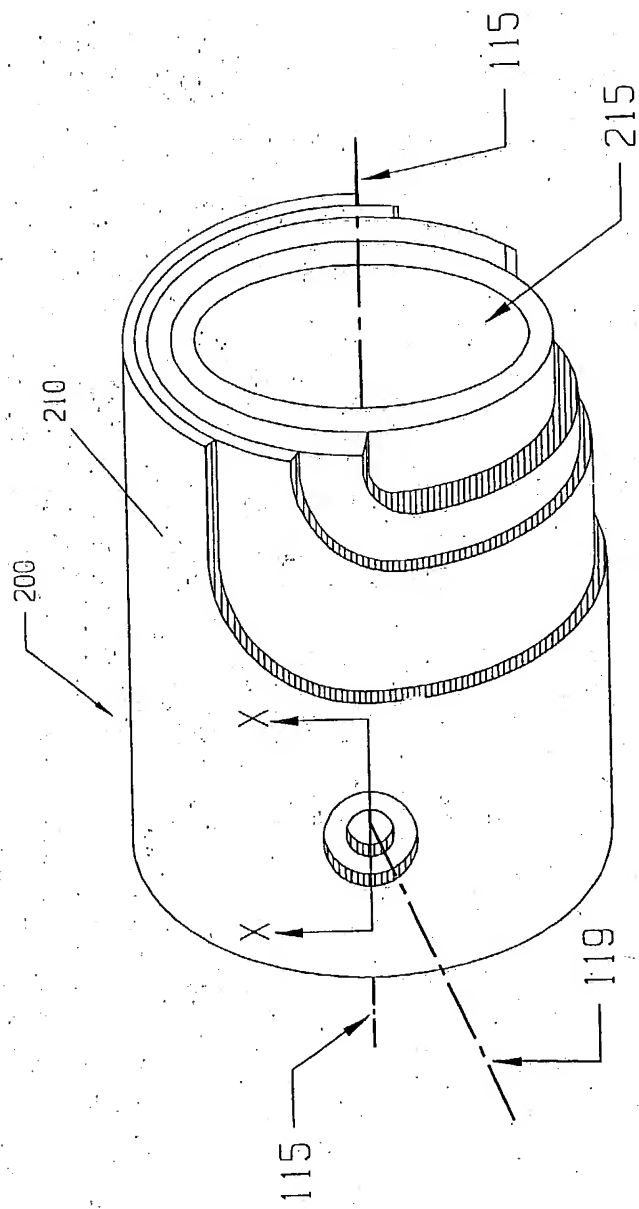
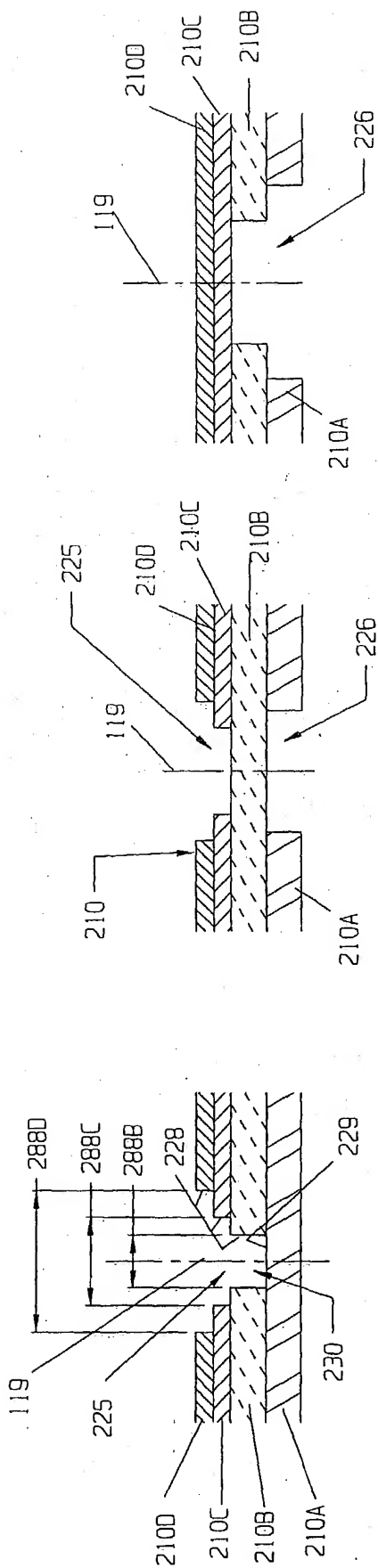


FIGURE 10



MULTIPLE O.D.
RECESSES

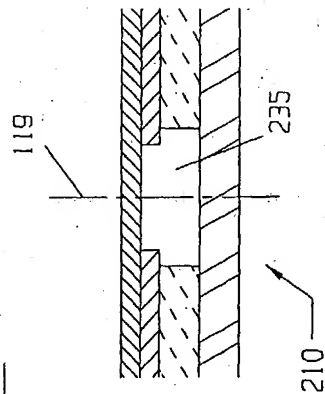
FIGURE 10A

I.D. AND O.D.
RECESSES

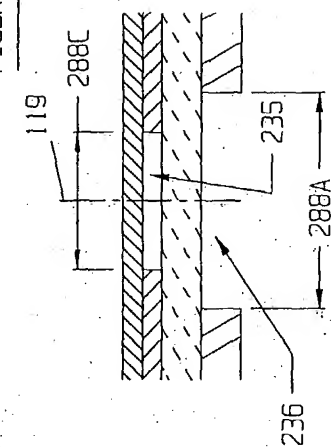
FIGURE 10B

MULTIPLE I.D.
RECESSES

FIGURE 10C



INTERNAL RECESSES
FIGURE 10D



COMBINATION RECESSES
FIGURE 10E

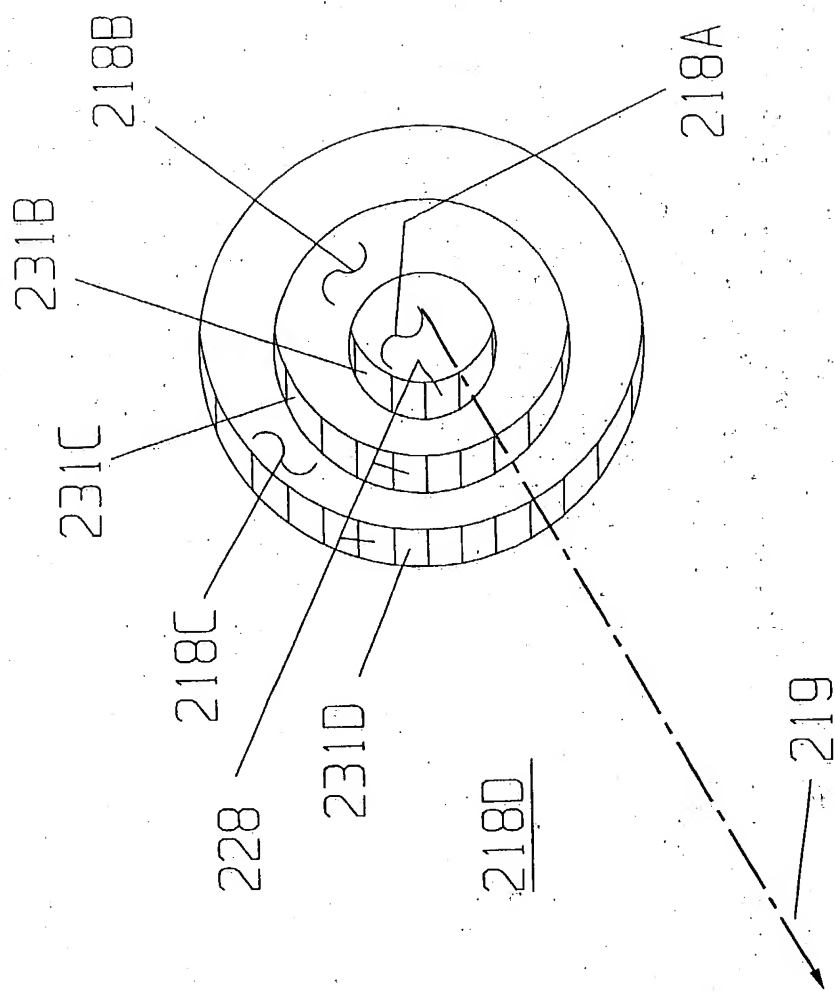


FIGURE 10F

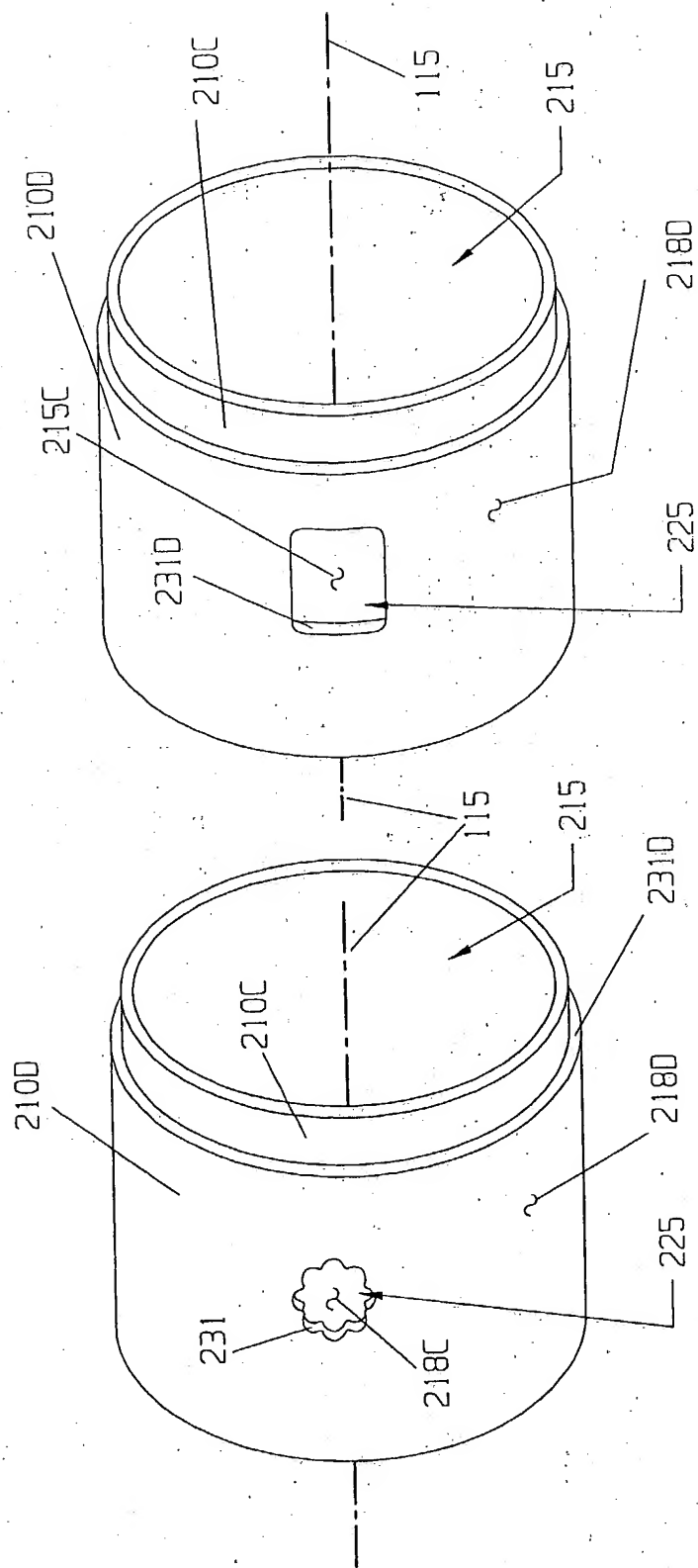


FIGURE 11

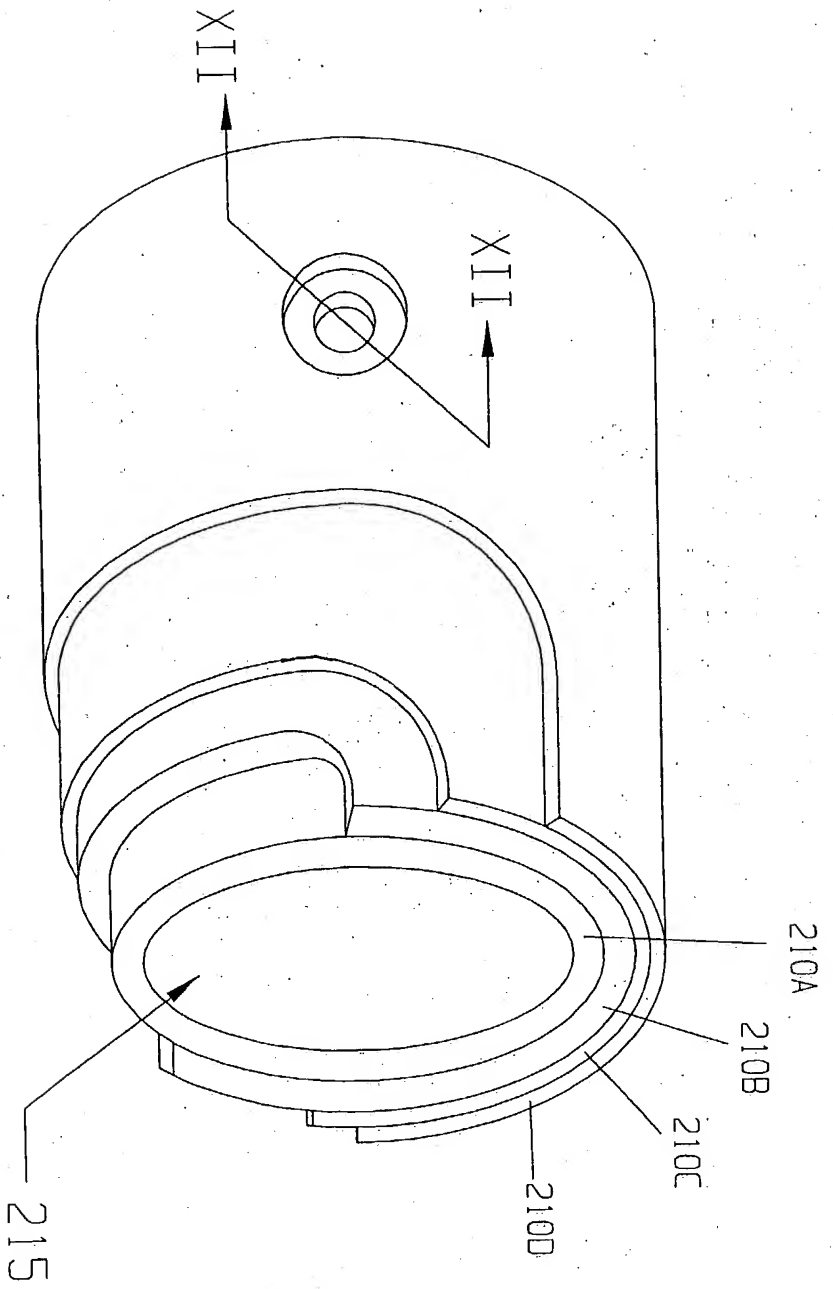


FIGURE 12

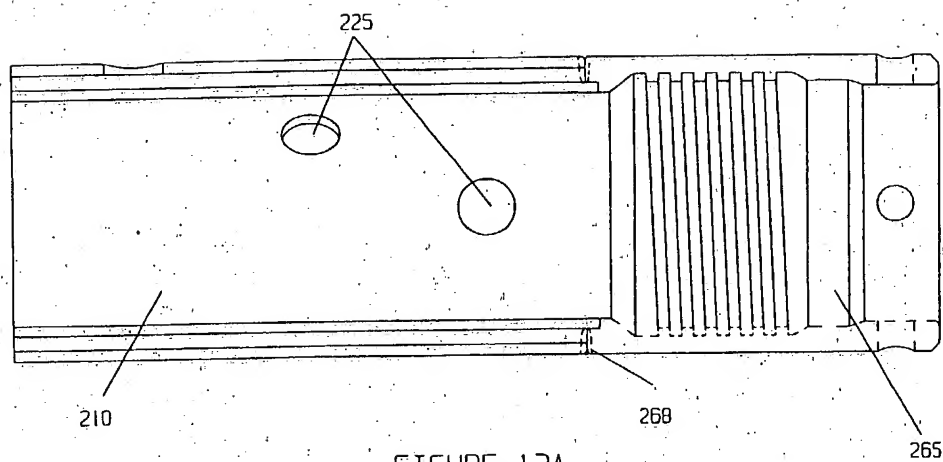


FIGURE 13A

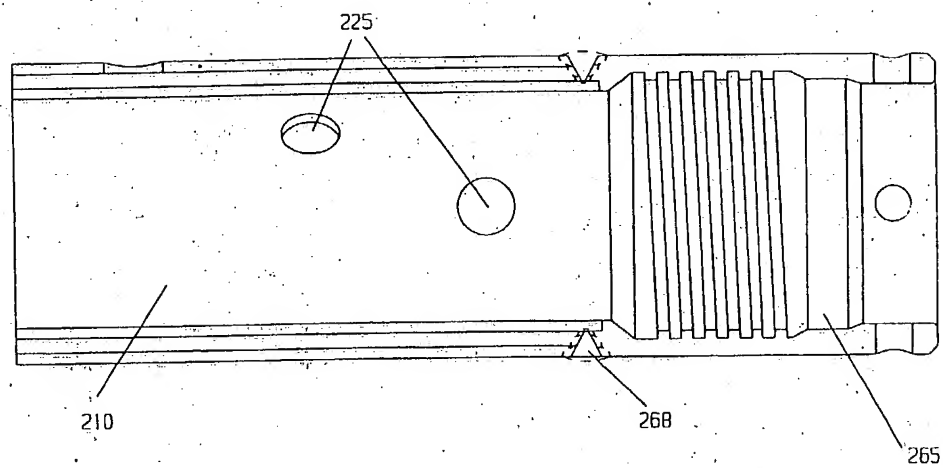


FIGURE 13B